

US-PAT-NO: **6460705**

DOCUMENT-IDENTIFIER: US 6460705 B1

TITLE: Method of creating identifiable smaller stacks of
currency bills within a larger stack of currency bills

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US Patent No. - PN (1):
6460705

Detailed Description Text - DETX (2):

Referring to FIGS. 1a and 1b, a multi-pocket document processing device 100 such as a currency handling device according to one embodiment of the present invention is illustrated. Currency bills are fed, one by one, from a stack of currency bills placed in an input receptacle 102 into a transport mechanism 104. The transport mechanism 104 guides currency bills to one of a plurality of output receptacles 106a-106h, which may include upper output receptacles 106a, 106b, as well as lower output receptacles 106c-106h. Before reaching an output receptacle 106 the transport mechanism 104 guides the bill through an evaluation region 108 where a bill can be, for

orientations. Obviously, the limit will be reached in one of the two lower output receptacles 106c,d before the other of the two lower output receptacles 106c,d. Accordingly, the excess bills are off-sorted or, alternatively, a similar method is performed in the adjacent lower output receptacles 106e,f. For example, when the limit is first reached with respect to face-up bills directed to the first lower output receptacle 106c, those face-up bills are then routed to the third lower output receptacle 106e while face-down bills continue to be directed to the second lower output receptacles 106d. Should the limit be reached in the third lower output receptacle 106e before the second lower output receptacle 106d, the face-up bills can then be directed to the next lower output receptacle 106f. When the limit in the second output receptacle 106d is eventually reached, the target lower output receptacles 106c,d of the face-up and face-down bills can be switched as described. While the above example was discussed in conjunction with the processing of only one denomination of currency bills, in other alternative embodiments more than one denomination of currency bills can be processed in a similar manner.

Detailed Description Text - DETX (63):

Many of the aforementioned modes of operation can be combined with a strapping mode in a multitude of alternative embodiments of the present invention. For example, in an alternative embodiment of the present invention, several denominations of U.S. currency bills may be processed pursuant to a strapping mode o